

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P290429

Luminaire Tested: **8SSRK-SLN-12-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLN-12-L935-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9892.1 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

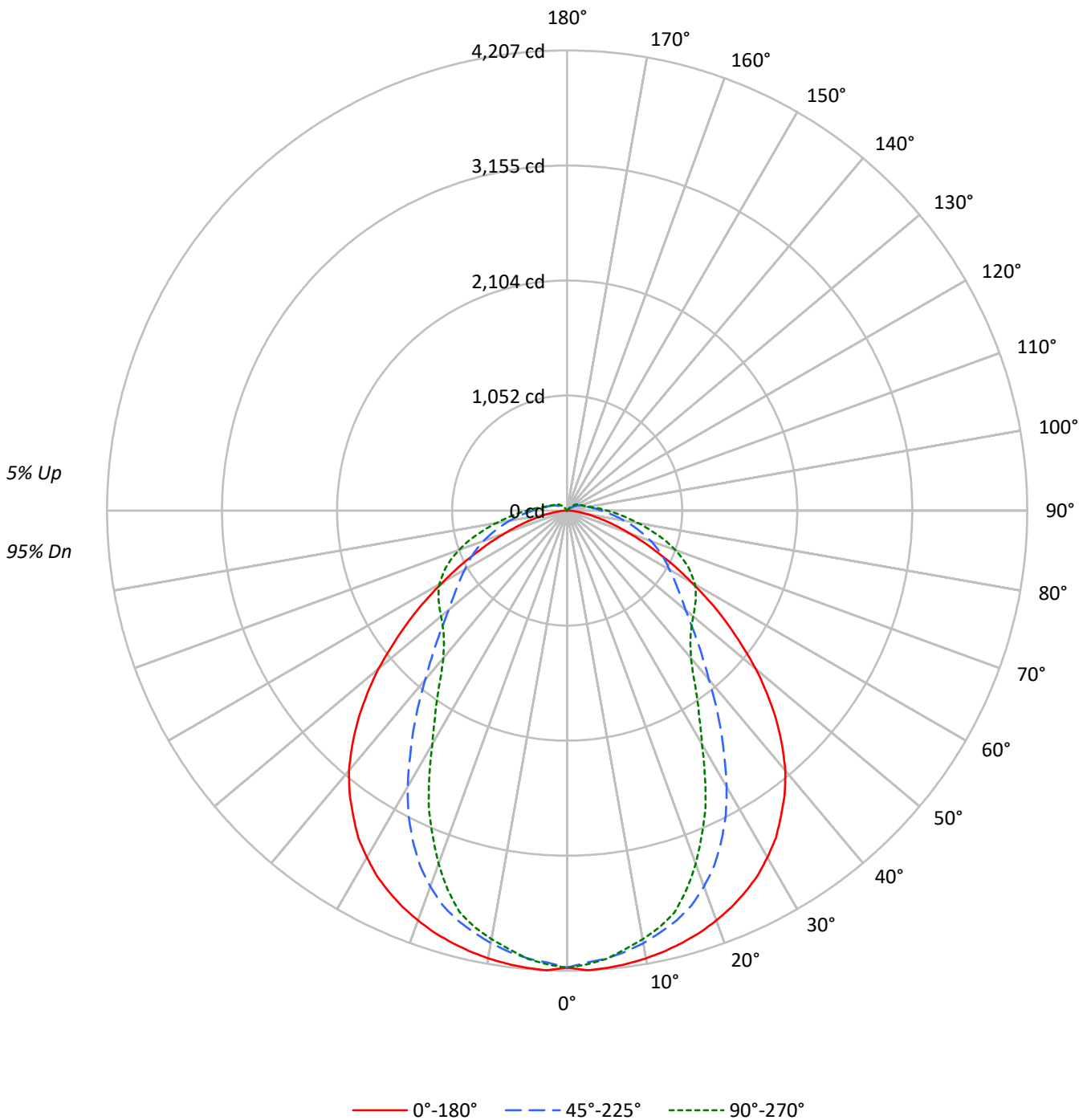
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34
8	61	48	40	34	60	47	40	34	46	39	34	44	38	33	43	37	33	31
9	57	44	37	31	56	44	36	31	42	35	31	41	35	30	40	34	30	28
10	54	41	34	28	53	41	33	28	39	33	28	38	32	28	37	31	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	134920	134920	134920
5°	135781	106708	98789
10°	135791	87711	76493
15°	135866	73557	61317
20°	135991	61761	48085
25°	135823	51087	37220
30°	134867	41169	27774
35°	132457	32297	21418
40°	128547	25114	17041
45°	120910	19949	14582
50°	110475	16171	13111
55°	96911	13681	12039
60°	81925	11785	10995
65°	67289	10236	9746
70°	53885	8719	8271
75°	41409	7196	6678
80°	29836	5771	5159
85°	18823	4513	3925



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.4	4.0
10°-20°	1099.8	11.1
20°-30°	1546.6	15.6
30°-40°	1619.6	16.4
40°-50°	1466.3	14.8
50°-60°	1248.0	12.6
60°-70°	986.8	10.0
70°-80°	671.9	6.8
80°-90°	383.4	3.9
90°-100°	212.6	2.1
100°-110°	129.9	1.3
110°-120°	79.0	0.8
120°-130°	42.8	0.4
130°-140°	12.9	0.1
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3038.7	30.7
0°-40°	4658.3	47.1
0°-60°	7372.5	74.5
0°-90°	9414.6	95.2
90°-120°	421.5	4.3
90°-150°	477.5	4.8
90°-180°	478.0	4.8
0°-180°	9892.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4178	4178	4178	4178	4178	
5°	4196	4170	4111	4129	4114	399
15°	4087	4009	3876	3836	3800	1155
25°	3849	3658	3335	3076	2993	1773
35°	3409	3025	2450	2144	2065	2130
45°	2703	2146	1679	1591	1597	2076
55°	1773	1353	1230	1371	1435	1585
65°	920	799	951	1161	1222	927
75°	358	435	670	823	853	390
85°	63	207	408	488	495	75
90°	1	144	312	363	363	4
95°	2	111	246	272	270	2
105°	2	67	165	171	165	2
115°	2	9	111	129	126	2
125°	1	2	50	89	95	1
135°	2	2	2	37	48	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4178.2	4178.2	4178.2	4178.2	4178.2
2.5°	4206.8	4184.0	4136.0	4166.8	4153.1
5°	4196.5	4170.2	4110.8	4129.1	4114.2
7.5°	4180.5	4145.1	4068.5	4074.2	4045.7
10°	4156.5	4110.8	4016.0	4005.7	3978.2
12.5°	4125.7	4062.8	3948.5	3934.8	3902.8
15°	4086.8	4009.1	3876.5	3836.5	3800.0
17.5°	4043.4	3945.1	3784.0	3694.8	3632.0
20°	3987.4	3862.8	3657.1	3528.0	3436.5
22.5°	3924.5	3773.7	3514.2	3320.0	3216.0
25°	3849.1	3658.2	3334.8	3076.5	2993.1
27.5°	3765.7	3538.2	3139.4	2837.7	2726.8
30°	3660.5	3386.2	2916.5	2593.1	2465.1
32.5°	3550.8	3222.8	2674.3	2348.5	2249.1
35°	3409.1	3025.1	2450.3	2144.0	2065.1
37.5°	3266.2	2813.7	2227.4	1961.1	1891.4
40°	3102.8	2600.0	2017.1	1810.3	1761.1
42.5°	2908.5	2382.8	1838.8	1683.4	1666.3
45°	2702.8	2146.3	1678.8	1590.8	1596.6
47.5°	2478.8	1931.4	1533.7	1516.6	1545.1
50°	2253.7	1731.4	1412.6	1460.6	1505.1
52.5°	2003.4	1538.3	1316.6	1414.8	1468.6
55°	1772.6	1353.1	1229.7	1371.4	1435.4
57.5°	1542.8	1195.4	1154.3	1326.8	1394.3
60°	1314.3	1051.4	1081.1	1278.8	1349.7
62.5°	1115.4	914.3	1017.1	1225.1	1286.8
65°	920.0	798.8	950.8	1161.1	1221.7
67.5°	757.7	696.0	884.6	1084.6	1139.4
70°	603.4	598.9	813.7	1000.0	1050.3
72.5°	470.9	510.9	739.4	912.0	960.0
75°	357.7	435.4	669.7	822.8	852.6
77.5°	261.7	364.6	598.9	732.6	753.1
80°	179.4	302.9	531.4	642.3	657.1
82.5°	113.1	250.3	466.3	561.1	571.4
85°	62.9	206.9	408.0	488.0	494.9
87.5°	24.0	170.3	355.4	424.0	429.7
90°	1.1	144.0	312.0	363.4	363.4
92.5°	1.1	125.7	276.6	315.4	317.7
95°	2.3	110.9	245.7	272.0	269.7
97.5°	2.3	100.6	217.1	238.9	232.0
100°	2.3	91.4	195.4	210.3	203.4
102.5°	2.3	81.1	178.3	187.4	179.4
105°	2.3	67.4	164.6	171.4	164.6
107.5°	2.3	53.7	149.7	158.9	152.0
110°	2.3	40.0	136.0	147.4	141.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	25.1	123.4	137.1	133.7
115°	2.3	9.1	110.9	129.1	125.7
117.5°	1.1	4.6	94.9	120.0	118.9
120°	1.1	3.4	80.0	112.0	112.0
122.5°	1.1	3.4	66.3	100.6	105.1
125°	1.1	2.3	50.3	89.1	94.9
127.5°	1.1	2.3	35.4	77.7	84.6
130°	1.1	2.3	18.3	64.0	73.1
132.5°	1.1	2.3	2.3	50.3	60.6
135°	2.3	2.3	2.3	36.6	48.0
137.5°	2.3	2.3	2.3	19.4	34.3
140°	2.3	2.3	1.1	1.1	16.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)